

ABSTRACT

Disclosed are a channel equalizer and digital television receiver using the same. The equalizer comprises a channel estimator, a channel distortion compensator and noise canceller.

5 The channel estimator estimates an impulse response of a transmission channel from a received signal. The channel distortion compensator transforms and processes the received signal and the estimated impulse response. The noise canceller predicts and eliminates amplified noise generated during
10 equalization.